

# Car Wiper Mechanism

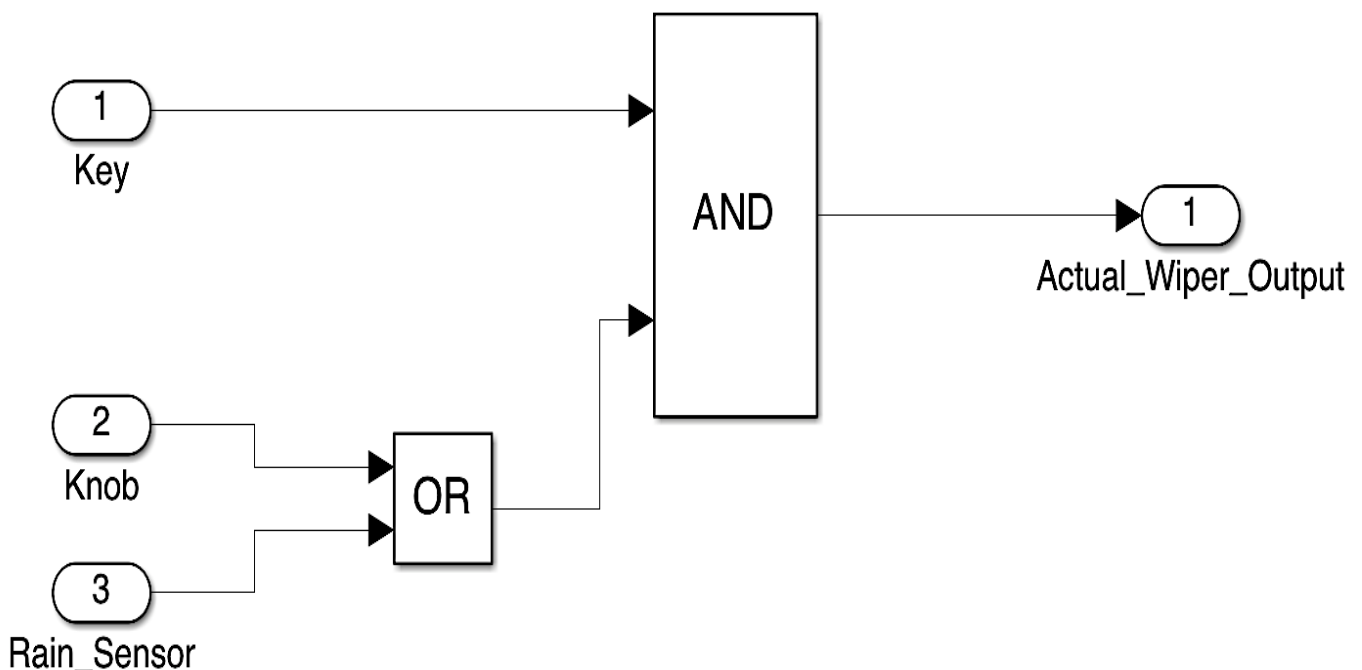
## Basic MiL Testing

Prepared By:  
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# Introduction:

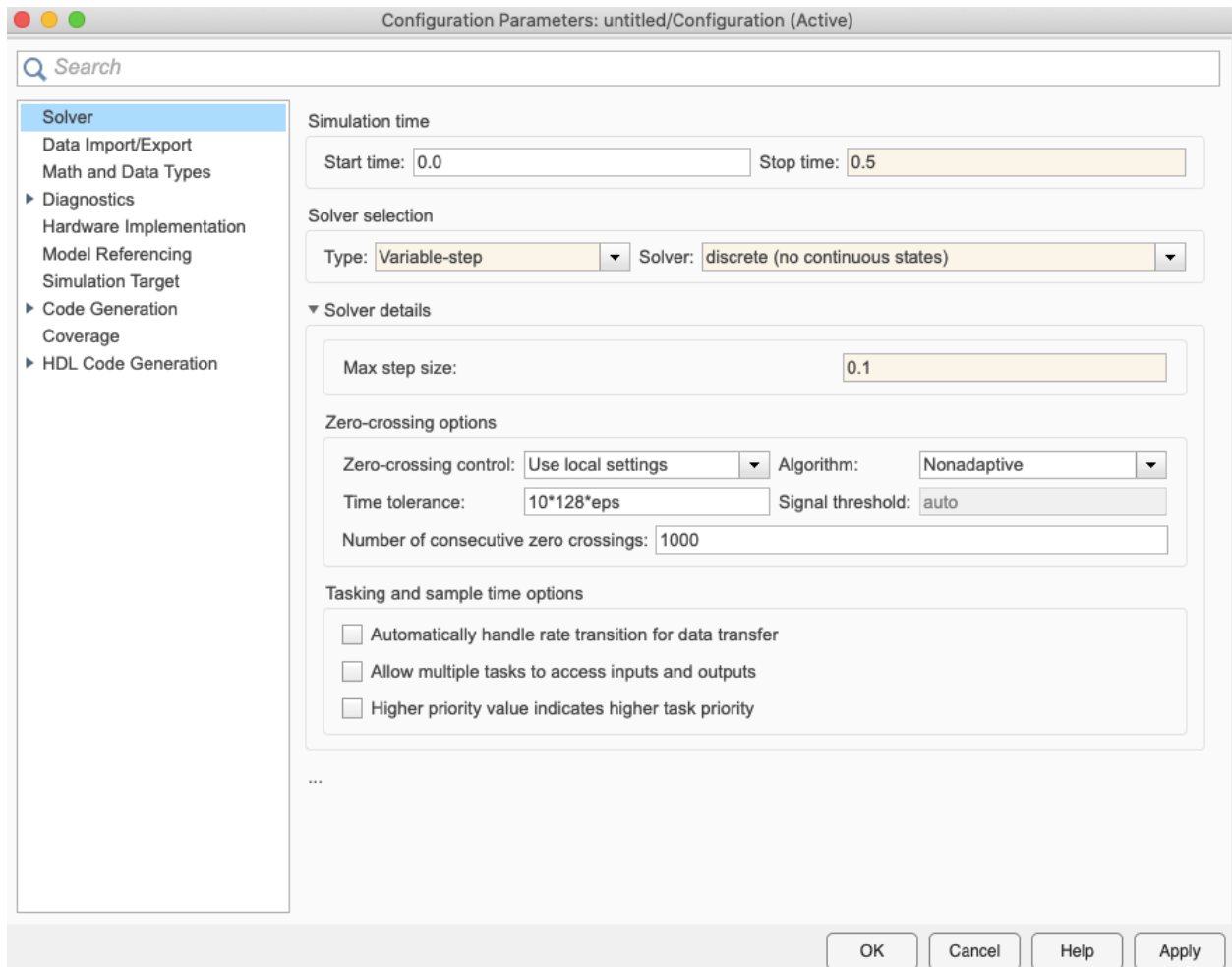
- Wiper Mechanism:

Car\_Wiper\_Mil\_Testing\_by\_NV\_PATEL ▸ Wiper Mechanism

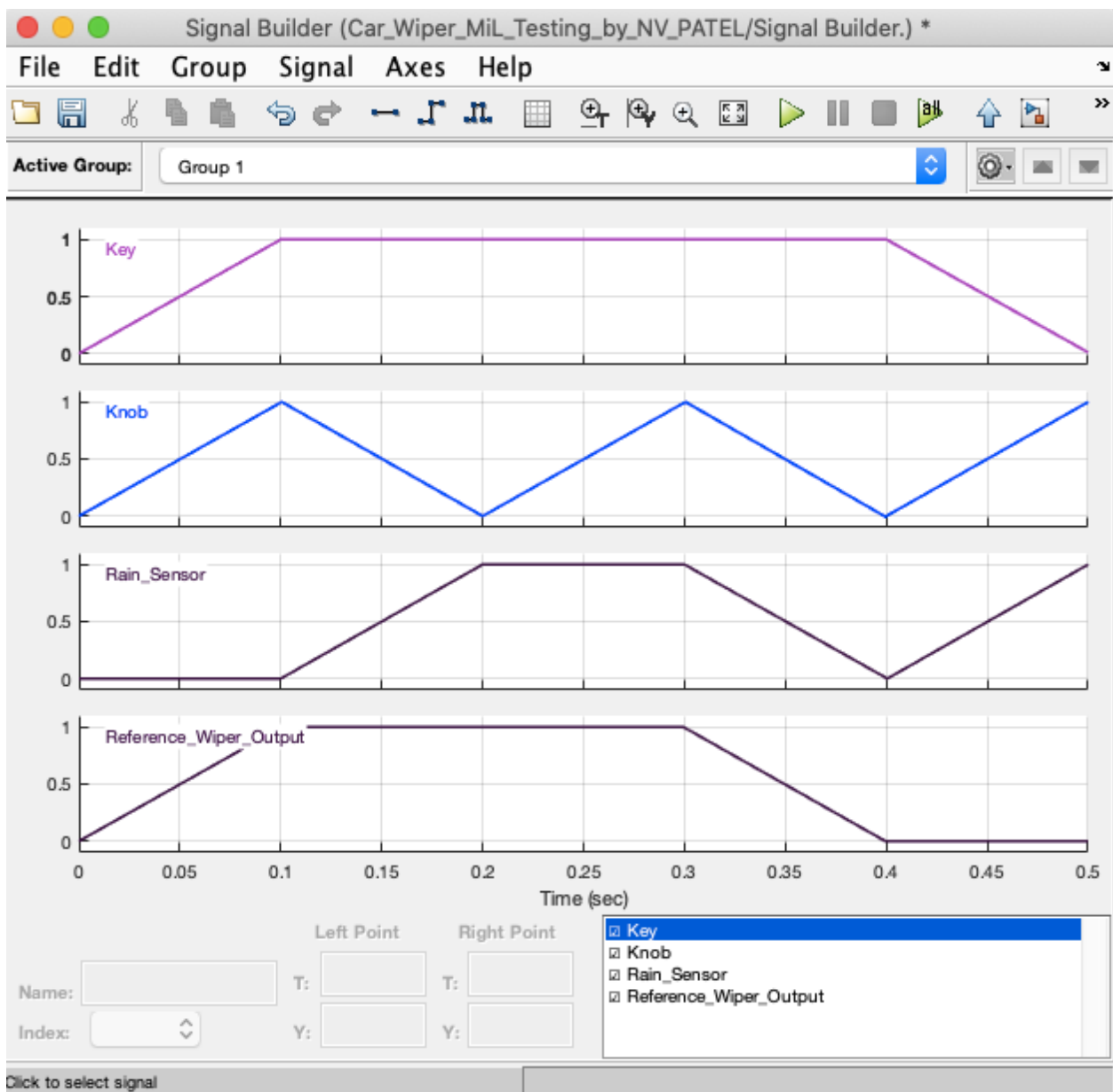


- The main basic mechanism behind car wipers can be easily understand by this screenshot of simulink model.
- As this picture of simulink model depicts that wipers are only comes into action/ ON when, key is ON and either knob or rain sensor is ON but the key has to be in ON condition- logic used.
- One AND logical operator, one OR opertator is being used.

# Model Configuration for Simulink Model



- As per the picture, the setting which were to be changed are like solver type, solver itself and maximum step size.



- Signal builder is used to create the logical signal. Here I have taken for the 0.5 seconds sample time. Key, Knob, Rain sensor and reference output of wiper in total 4 signals are considered which is then fed to subsystem of wiper mechanism through the data type conversion block.
- Data type conversion has been used due to the different data type inside signal builder (double) and Boolean values inside the subsystem of wiper mechanism.

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